

Psychological Bulletin

R. J. Herrnstein, Editor, Harvard University
David A. Kenny, Associate Editor, Harvard University

VOLUME 84 1977

PUBLISHED BIMONTHLY BY THE AMERICAN PSYCHOLOGICAL ASSOCIATION, INC.
1200 Seventeenth Street, N.W., Washington, D.C. 20036
Copyright © 1977 by the American Psychological Association, Inc.

Editorial Consultants

- Ernest L. Abel
Jack A. Adams
Norman T. Adler
George Ainslie
Mary D. Ainsworth
Icek Ajzen
Duane F. Alwin
Norman H. Anderson
Jeremy M. Anglin
Mark I. Appelbaum
Phipps Arabie
W. Peter Archibald
Barry C. Arnold
Justin Aronfreed
John W. Atkinson
- Ronald Baenninger
Donald Bakal
Albert Bandura
C. J. Bartlett
Harold P. Bechtoldt
Gilbert Becker
Richard Q. Bell
Daryl J. Bem
Sandra L. Bem
Jacob Cohen
Raymond O. Collier, Jr.
Barry E. Collins
C. Keith Connors
Anne Constantinople
Peter M. Bentler
Carl Bereiter
Allen E. Bergin
Leonard Berkowitz
D. E. Berlyne
Thomas J. Berndt
Douglas A. Bernstein
Michael H. Birnbaum
Yvonne M. Bishop
Susan Carey Block
Arthur L. Blumenthal
R. Darrell Bock
Robert C. Bolles
Edgar F. Borgatta
Thomas D. Borkovec
Robert F. Boruch
Jack Botwinick
Russell Boxley
Charles J. Brainerd
Jack W. Brehm
Berndt Brehrer
Tim Brennen
Marilyn Brewer
Philip Brickman
P. L. Broadhurst
Urie Bronfenbrener
Donald M. Broverman
John A. Burns
Arnold Buss
- Remi J. Cadoret
Bettye M. Caldwell
Robert Calsyn
Donald T. Campbell
- Robert Cancro
V. R. Carlson
John S. Carroll
Dorwin Cartwright
Joseph R. Cautela
Loren J. Chapman
Stephen F. Checkosky
Isidor Chein
Norman Cliff
Gerald L. Clore
William G. Cochran
Stuart W. Cook
F. I. M. Craik
Elliot M. Cramer
Virginia C. Crandall
Linda S. Crnic
James F. Crow
Robert G. Crowder
- Murray Dalziel
John M. Darley
Richard B. Darlington
Gerald C. Davison
Robyn M. Dawes
Edward L. Deci
John Deegan, Jr.
J. C. DeFries
Gordon F. Derner
Diana Deutsch
Jill de Villiers
Gerrit E. DeYoung
E. F. Diener
Barbara S. Dohrenwend
Daniel M. Doleys
Roger L. Dominowski
Robert W. Doty
Marshall P. Duke
Olive Jean Dunn
- Alice H. Eagly
Lindon Eaves
Robert Edelberg
Julian J. Edney
Allen L. Edwards
Ward Edwards
Howard Egeth
Carl Eisdorfer
Leon Eisenberg
Robert Eisenberger
David Elkind
Donald N. Elliott
Henry C. Ellis
Bernard T. Engel
Doris R. Entwistle
Richard C. Erickson
Albert Erlebacher
Susan M. Ervin-Tripp
- Norman T. Feather
M. P. Feldman
Seymour Feshbach
Stephen E. Fienberg
Jeremy D. Finn
Martin Fishbein
Donald W. Fiske
- Joseph L. Fleiss
Harry Fowler
James L. Fozard
John Frederiksen
Jonathan L. Freedman
John W. French
Benjamin Fruchter
Lita Furby
- C. R. Gallistel
Paul A. Games
Sol L. Garfield
Norman Garnezy
Russell G. Geen
Harold B. Gerard
Robert Glaser
Gene V. Glass
Jean Berko Gleason
Goldine C. Gleser
George W. Goethals
Lewis R. Goldberg
Arthur S. Goldberger
Donald R. Goodenough
Harold Goodglass
Gerald Goodman
Isidore Gormezano
Richard L. Gorsuch
John M. Gottman
Harrison G. Gough
Susan W. Gray
David M. Green
William T. Greenough
Anthony G. Greenwald
Ellen R. Gritz
Alan E. Gross
Norman Guttman
- Ralph Norman Haber
Marshall Haith
A. Ralph Hakstian
Curtis Hardyck
Richard J. Harris
Victor A. Harris
Ernest Hartmann
Reid Hastie
Albert H. Hastorf
J. R. Hayes
David R. Heise
James B. Heitler
Douglas A. Hibbs
Ernest R. Hilgard
Philip N. Himeline
John R. Hinrichs
Nancy Hirschberg
Martin L. Hoffman
Jerry A. Hogan
Paul W. Holland
David S. Holmes
Evelyn Hooker
John L. Horn
Lawrence J. Hubert
Schuyler W. Huck
L. Rowell Huesmann
David Huizinga
- Thomas J. Hummel
Lloyd G. Humphreys
Earl B. Hunt
Aletha Huston-Stein
Janellen Huttenlocher
- Tarow Indow
Robert L. Isaacson
Marvin A. Iverson
- Carol Nagy Jacklin
Douglas N. Jackson
John E. Jackson
Theodore Jacob
Arthur R. Jensen
Harry J. Jerison
James M. Jones
- Henry F. Kaiser
Anthony Kales
Robert Kastenbaum
Edward S. Katkin
Ralph Katz
Lloyd Kaufman
Alan E. Kazdin
Daniel P. Keating
Gideon Keren
William Kessen
Louise Kidder
John Kihlstrom
Peter R. Killeen
Daniel P. Kimble
Marcel Kinsbourne
Alan S. Kornheiser
Dennis Krebs
Lester E. Krueger
William Kruskal
Karl D. Kryter
- Gisela Labouvie-Vief
Michael J. Lambert
Kenneth C. Land
Patrick R. Laughlin
Edward E. Lawler III
Paul R. Lawrence
Mark R. Lepper
David Lester
Joel R. Levin
Daniel M. Levitsky
Kenneth J. Levy
Peter M. Lewinsohn
Michael Lewis
C. C. Li
Sarah Lichtenstein
M. A. Lieberman
Robert M. Liebert
Ronald Liebman
Robert L. Linn
W. Charles Lobitz
Edwin A. Locke III
Rolf Loeber
John C. Loehlin
Eugene R. Long
Joseph LoPiccolo
S. H. Lovibond

Lester Luborsky
R. Duncan Luce
David T. Lykken
James J. Lynch

Eleanor E. Maccoby
Charles H. Madsen, Jr.
Richard J. W. Mansfield
Leonard A. Marascuilo
Vernon H. Mark
Lawrence E. Marks
John W. Mason
John Leslie McCary
James L. McGaugh
D. R. McNeil
Quinn McNemar
Ronald Melzack
Stanley B. Messer
Herbert H. Meyer
Richard P. Michael
Stanley Milgram
William R. Miller
Walter Mischel
Rudolf H. Moos
Michael J. Morgan
Stanley Morse
Frederick Mosteller
Vernon B. Mountcastle
Harry Munsinger
Bennet B. Murdock
Edward J. Murray
Paul H. Mussen
James S. Myer
David G. Myers
Jerome L. Myers

Walter E. Nance
John M. Neale
Robert D. Nebes
Katherine Nelson
John R. Nesselroade
Raymond S. Nickerson
Donald A. Norman
Jum C. Nunnally

K. Daniel O'Leary
Donald Olivier
David S. Olson
Martin T. Orne
John E. Overall

Ellis B. Page
Allan U. Paivio
David S. Palermo
Robert Pandina
Allen Parducci
Morris B. Parloff
G. R. Patterson
Gordon L. Paul
Frank A. Pedersen
James W. Pellegrino
Albert Pepitone
Richard W. Pew
E. Jerry Phares
Malcolm C. Pike
Irwin Pollack
James Pomerantz
Andrew C. Porter
Lyman W. Porter
Leo J. Postman
William F. Prokasy
B. H. Pubols, Jr.

Leonore S. Radloff
Joel O. Raynor
Robert A. Rescorla
H. N. Ricciuti
Todd R. Risley
David A. Rodgers
Milton Rokeach
Robert Rosenthal
Ralph L. Rosnow
Julian B. Rotter
Kay F. Rowland
William W. Rozeboom
Paul Rozin
Donald B. Rubin
Elliot L. Rubin
Zick Rubin

Herman C. Salzberg
Kurt Salzinger
Howard M. Sandler
Theodore R. Sarbin
Harris B. Savin
K. Warner Schaie
Edgar H. Schein
Virginia E. Schein
Frank L. Schmidt
David J. Schneider

John W. Schneider
Carmi Schooler
J. P. Scott
S. R. Searle
W. Burleigh Seaver
Lee Sechrest
Josephine Semmes
Lawrence J. Severy
Juliet Popper Shaffer
Charles Shagass
Marvin E. Shaw
Carolyn Wood Sherif
Edwin S. Shneidman
Thomas J. Shuell
Claude Siegel
Dean Keith Simonton
Jerome E. Singer
Devendra Singh
Norman J. Slamecka
Paul Slovic
Marshall Smith
Stover H. Snook
Robert Somnier
Donald P. Spence
Charles D. Spielberger
J. E. R. Staddon
Ross Stagner
Julian C. Stanley, Jr.
William H. Starbuck
Brandt F. Steele
Richard M. Steers
Larry Stein
R. M. Steinman
Robert J. Sternberg
Joseph C. Stevens
Harold W. Stevenson
John S. Strauss
Milton E. Strauss
Charles F. Stromeyer III
Albert Stunkard
Eric D. Sundstrom
John A. Swets

Glenn Takata
Maurice M. Tatsuoka
Edward Taub
David A. Taylor

Auke Tellegen
H. S. Terrace

Timothy J. Teyler
John Thibaut
Hoben Thomas
William R. Thompson
Robert L. Thorndike
Neil H. Timm
Ledyard R. Tucker
Read D. Tuddenham
Endel Tulving

Leonard P. Ullmann
Ina C. Uzgiris

George E. Vaillant
Stuart Valins
Philip E. Vernon
Victor H. Vroom

Roger N. Walsh
Elaine Walster
John P. Wanous
W. Dixon Ward
Joel S. Warm
Neil Warren
Stanley S. Wasserman
Steven Weber
Sidney Weinstein
Paul H. Wender
Kenneth W. Wexley
Sheldon H. White
Abraham Wikler
David E. Wiley
Leland Wilkinson
Victor L. Willson
B. J. Winer
Marian Winterbottom
Myron Wish
Herman A. Witkin
Joachim F. Wohlwill
Montrose Wolf
Barry E. Wolfe
Camille B. Wortman
Paul M. Wortman
Lawrence S. Wrightsman
Richard J. Wurtman

David Zeaman
Philip R. Zelazo
Carl N. Zimet
Norman E. Zinberg

Journal Staff

Anita DeVivo
Executive Editor

Deborah S. Felder
Assistant to the Executive Editor

Kendall C. Patterson
Production Supervisor

David H. Orgel
Production Editor

Robert J. Hayward
Advertising Representative

Anne Redman
Subscription Manager

1
5
A

Author Index to Volume 84

Key to Pagination

<i>Issue No.</i>	<i>Month</i>	<i>Pages</i>	<i>Issue No.</i>	<i>Month</i>	<i>Pages</i>
1	January	1-192	4	July	601-816
2	March	193-384	5	September	817-1056
3	May	385-600	6	November	1057-1288

Abel, Ernest L. The relationship between cannabis and violence: A review	193
Abramowitz, Christine V., and Dokecki, Paul R. The politics of clinical judgment: Early empirical returns	460
Abramson, Lyn Y., and Sackeim, Harold A. A paradox in depression: Uncontrollability and self-blame	838
Adams, Henry E., and Sturgis, Ellie T. Status of behavioral reorientation techniques in the modification of homosexuality: A review	1171
Ajzen, Icek, and Fishbein, Martin. Attitude-behavior relations: A theoretical analysis and review of empirical research	888
Al-Issa, Ihsan. Social and cultural aspects of hallucinations	570
Anderson, Norman H., and Shanteau, James. Weak inference with linear models	1155
Auerbach, Stephen M., and Kilmann, Peter R. Crisis intervention: A review of outcome research	1189
Balaschak, Barbara A. <i>See</i> Mostofsky, David I.	
Berch, Daniel B. Absolute judgment of recency: A reexamination of children's short-term memory data	1261
Billow, Richard M. Metaphor: A review of the psychological literature	81
Black, A. H., Nadel, L., and O'Keefe, J. Hippocampal function in avoidance learning and punishment	1107
Brainerd, Charles J. Cognitive development and concept learning: An interpretative review..	919
Briscoe, Robert. <i>See</i> Quadagno, David M.	
Bryk, Anthony S., and Weisberg, Herbert I. Use of the nonequivalent control group design when subjects are growing	950
Capasso, Deborah R. <i>See</i> Rumenik, Donna K.	
Carr, Edward G. The motivation of self-injurious behavior: A review of some hypotheses ..	800
Clark, Jeffrey L. <i>See</i> Warm, Joel S.	
Coyle, Bryan W. <i>See</i> Schmitt, Neal.	
Curran, James P. Skills training as an approach to the treatment of heterosexual-social anxiety: A review	140
DeFries, J. C. <i>See</i> Plomin, Robert.	
Dickinson, Anthony, and Pearce, John M. Inhibitory interactions between appetitive and aversive stimuli	690
Dipboye, Robert L. Alternative approaches to deindividuation	1057
Dokecki, Paul R. <i>See</i> Abramowitz, Christine V.	
Doleys, Daniel M. Behavioral treatments for nocturnal enuresis in children: A review of the recent literature	30
<i>Erratum</i>	411
<i>Erratum</i>	1217
Einhorn, Hillel J., Hogarth, Robin M., and Klempner, Eric. Quality of group judgment ..	158
Erickson, Richard C., and Scott, Monte L. Clinical memory testing: A review	1130
Erlebacher, Albert. Design and analysis of experiments contrasting the within- and between-subjects manipulation of the independent variable	212
Eysenck, H. J. Personality and factor analysis: A reply to Guilford	405

- Felbain-Keramidas, Sherry L. *See* Gustafson, John W.
- Fidler, Dorothy S., and Kleinknecht, Richard E. Randomized response versus direct questioning: Two data-collection methods for sensitive information 1045
- Fishbein, Martin. *See* Ajzen, Icek.
- Freides, David. Modality differences, transfer designs, and statistics: Comment on a reply .. 60
- Frodi, Ann, Macaulay, Jacqueline, and Thome, Pauline Ropert. Are women always less aggressive than men? A review of the experimental literature 634
- Gange, James J. *See* Geen, Russell G.
- Garfield, Sol L. Further comments on "Dropping out of treatment": Reply to Baekeland and Lundwall 306
- Geen, Russell G., and Gange, James J. Drive theory of social facilitation: Twelve years of theory and research 1267
- Gerbasi, Kathleen Carrese, Zuckerman, Miron, and Reis, Harry T. Justice needs a new blindfold: A review of mock jury research 323
- Glaros, Alan G., and Rao, Stephen M. Bruxism: A critical review 767
- Glencross, D. J. Control of skilled movements 14
- Goldberger, Arthur S. On Thomas's model for kinship correlations 1239
- Goodenough, Donald R. *See* Witkin, Herman A.
- Guilford, J. P. Will the real factor of extraversion-introversion please stand up? A reply to Eysenck 412
- Gustafson, John W., and Felbain-Keramidas, Sherry L. Behavioral and neural approaches to the function of the mystacial vibrissae 477
- Hall, Douglas T. *See* Rabinowitz, Samuel.
- Hardyck, Curtis, and Petrino, Lewis F. Left-handedness 385
- Hattie, John A. Conditions for administering creativity tests 1249
- Havlicek, Larry L., and Peterson, Nancy L. Effect of the violation of assumptions upon significance levels of the Pearson r 373
- Hazlett, Lenis. *See* Yarczower, Matthew.
- Hendrick, Clyde. *See* Rumenik, Donna K.
- Hoffman, Martin L. Sex differences in empathy and related behaviors 712
- Hogarth, Robin M. *See* Einhorn, Hillel J.
- Hubert, Lawrence. Kappa revisited 289
- Hubert, Lawrence J., and Levin, Joel R. Inference models for categorical clustering 878
- Keren, Gideon. *See* Lewis, Charles.
- Keren, Gideon, and Lewis, Charles. A comment on coding in nonorthogonal designs 346
- Keselman, H. J., and Rogan, Joanne C. The Tukey multiple comparison test: 1953-1976 .. 1050
- Kilmann, Peter R. *See* Auerbach, Stephen M.
- Kilmann, Peter R. *See* Sotile, Wayne M.
- Kleinknecht, Richard E. *See* Fidler, Dorothy S.
- Klempner, Eric. *See* Einhorn, Hillel J.
- Larzelere, Robert E., and Mulaik, Stanley A. Single-sample tests for many correlations .. 557
- Lenney, Ellen. Women's self-confidence in achievement settings 1
- Leon, Gloria R., and Roth, Lydia. Obesity: Psychological causes, correlations, and speculations 117
- Levin, Joel R. *See* Hubert, Lawrence J.
- Levin, Joel R., and Marascuilo, Leonard A. Post hoc analysis of repeated measures interactions and gain scores: Whither the inconsistency? 247
- Levy, Kenneth J. The randomized response technique and large sample comparisons among the parameters of K independent binomial populations 244
- Lewis, Charles. *See* Keren, Gideon.
- Lewis, Charles, and Keren, Gideon. You can't have your cake and eat it too: Some considerations of the error term 1150
- Lewis, Marc S. Trend surface analysis of community variables 940
- Linn, Robert L., and Werts, Charles E. Analysis implications of the choice of a structural model in the nonequivalent control group design 229
- Loehlin, John C. *See* Plomin, Robert.

- Macaulay, Jacqueline. *See* Frodi, Ann.
- Mandler, Jean M., and Stein, Nancy L. The myth of perceptual defect: Sources and evidence 173
- Marascuilo, Leonard A. *See* Levin, Joel R.
- Marascuilo, Leonard A., and Serlin, Ronald. Interactions for dichotomous variables in repeated measures designs 1002
- Margolies, Paul J. Behavioral approaches to the treatment of early infantile autism: A review 249
- Markowitsch, Hans J., and Pritzel, Monika. Comparative analysis of prefrontal learning functions in rats, cats, and monkeys 817
- McLaughlin, Barry. Second-language learning in children 438
- Mellenbergh, Gideon J. The replicability of measures 378
- Mostofsky, David I., and Balaschak, Barbara A. Psychobiological control of seizures 723
- Mulaik, Stanley A. *See* Larzelere, Robert E.
- Nadel, L. *See* Black, A. H.
- Nelson, Katherine. The syntagmatic-paradigmatic shift revisited: A review of research and theory 93
- O'Keefe, J. *See* Black, A. H.
- Overall, John E., and Woodward, J. Arthur. Nonrandom assignment and the analysis of covariance 588
- Pearce, John M. *See* Dickinson, Anthony.
- Pedhazur, Elazar J. Coding subjects in repeated measures designs 298
- Peterson, Nancy L. *See* Havlicek, Larry L.
- Petrinovich, Lewis F. *See* Hardyck, Curtis.
- Plomin, Robert, DeFries, J. C., and Loehlin, John C. Genotype-environment interaction and correlation in the analysis of human behavior 309
- Podlesny, John A., and Raskin, David C. Physiological measures and the detection of deception 782
- Poulton, E. C. Continuous intense noise masks auditory feedback and inner speech 977
- Price, Bertram. Ridge regression: Application to nonexperimental data 759
- Pritzel, Monika. *See* Markowitsch, Hans J.
- Quadagno, David M., Briscoe, Robert, and Quadagno, Jill S. Effect of perinatal gonadal hormones on selected nonsexual behavior patterns: A critical assessment of the non-human and human literature 62
- Quadagno, Jill S. *See* Quadagno, David M.
- Rabinowitz, Samuel, and Hall, Douglas T. Organizational research on job involvement .. 265
- Rao, Stephen M. *See* Glaros, Alan G.
- Raskin, David C. *See* Podlesny, John A.
- Rauschenberger, John. *See* Schmitt, Neal.
- Reis, Harry T. *See* Gerbasi, Kathleen Carrese.
- Reynolds, Barry S. Psychological treatment models and outcome results for erectile dysfunction: A critical review 1218
- Riddle, Mary, and Roberts, Alan H. Delinquency, delay of gratification, recidivism, and the Porteus Maze Tests 417
- Roberts, Alan H. *See* Riddle, Mary.
- Rogan, Joanne C. *See* Keselman, H. J.
- Roth, Lydia. *See* Leon, Gloria R.
- Rowland, Kay F. Environmental events predicting death for the elderly 349
- Royce, Joseph R. On the construct validity of open-field measures 1098
- Rumenik, Donna K., Capasso, Deborah R., and Hendrick, Clyde. Experimenter sex effects in behavioral research 852
- Saccuzzo, Dennis P. Bridges between schizophrenia and gerontology: Generalized or specific deficits? 595
- Sackeim, Harold A. *See* Abramson, Lyn Y.
- Schmitt, Neal, Coyle, Bryan W., and Rauschenberger, John. A Monte Carlo evaluation of three formula estimates of cross-validated multiple correlation 751
- Schumsky, Donald A. *See* Warm, Joel S.

Scott, Monte L. <i>See</i> Erickson, Richard C.	
Searleman, Alan. A review of right hemisphere linguistic capabilities	503
Serlin, Ronald. <i>See</i> Marascuilo, Leonard A.	
Shaffer, Juliet Popper. Reorganization of variables in analysis of variance and multidimensional contingency tables	220
Shanteau, James. <i>See</i> Anderson, Norman H.	
Simonton, Dean Keith. Cross-sectional time-series experiments: Some suggested statistical analyses	489
<i>Erratum</i>	1097
Sotile, Wayne M., and Kilmann, Peter R. Treatments of psychogenic female sexual dysfunctions	619
Stein, Nancy L. <i>See</i> Mandler, Jean M.	
Sternberg, Robert J., and Tulving, Endel. The measurement of subjective organization in free recall	539
Sturgis, Ellie T. <i>See</i> Adams, Henry E.	
Thomas, Hoben. Kinship correlations and scientific nihilism: Reply to Goldberger	1245
Thome, Pauline Ropt. <i>See</i> Frodi, Ann.	
Treisman, Michel. On the stability of d_s	235
Tulving, Endel. <i>See</i> Sternberg, Robert J.	
Tunnell, Gilbert B. Three dimensions of naturalness: An expanded definition of field research	426
Van Buskirk, Susan Swann. A two-phase perspective on the treatment of anorexia nervosa	529
Waber, Deborah P. Biological substrates of field dependence: Implications of the sex difference	1076
Wanous, John P. Organizational entry: Newcomers moving from outside to inside	601
Warm, Joel S., Schumsky, Donald A., and Clark, Jeffrey L. On the understanding of intersensory transfer designs: Reply to Freides	57
Weisberg, Herbert I. <i>See</i> Bryk, Anthony S.	
Weisenberg, Matisyohu. Pain and pain control	1008
Werts, Charles E. <i>See</i> Linn, Robert L.	
Wilkins, Wallace. Self-fulfilling prophecy: Is there a phenomenon to explain?	55
Williams, Ederyn. Experimental comparisons of face-to-face and mediated communication: A review	963
Witkin, Herman A., and Goodenough, Donald R. Field dependence and interpersonal behavior	661
Woodward, J. Arthur. <i>See</i> Overall, John E.	
Yarczower, Matthew, and Hazlett, Lenis. Evolutionary scales and anagenesis	1088
Zuckerman, Miron. <i>See</i> Gerbasi, Kathleen Carrese.	

